

1325 Dills Cove Rd.
Sylva, NC 28779



Phone & Fax
(704) 586-3955

Fac/Perm/Co ID # <i>hc</i>	Date <i>03/12/97</i>	Doc ID# DIN
-------------------------------	-------------------------	----------------

03/12/97

TO: Solid Waste Section
Attn: Larry Rose
P. O. Box 27687
Raleigh, NC 27611-7687

RE: Jackson County Landfill
Water Sampling - Monitor Wells
Background Statistics

Background determinations have been made on monitor well #2, based on Appendix I sampling and analyses from 4/95, 3/96, 7/96, & 10/96.

Mean, standard deviation, and maximum error estimate calculations have been made on detected analytes in this well. Mean and standard deviation are read directly from a calculator. Maximum error (E) is estimated by the formula:

$$E = t_{\alpha/2} \cdot \frac{s}{\sqrt{n}}$$

with s = standard deviation

$n = 4$ = number of observations

$t_{\alpha/2} = 3.182$ at a 95% confidence level

Results are tabulated in the attachment. Please contact me if you need further information.


MICHAEL H. OWENS

Jackson County Landfill
Background Calculations
Monitor Well # 2

<u>Component</u>	<u>mean</u>	<u>+/- error</u>
Barium	0.030 mg/l	0.033 mg/l
Lead	0.007 mg/l	0.022 mg/l
Zinc	0.031 mg/l	0.086 mg/l
1,1-Dichloroethane	0.638 ug/l	1.62 ug/l
Toluene	0.0014 mg/l	0.0024 mg/l

Note: for components below detection limit, calculations use
1/2 of sample detection limit units.